

Wetland name or number _____

WETLAND RATING FORM – EASTERN WASHINGTON

Version 2 - Updated June 2006 to increase accuracy and reproducibility among users

Name of wetland (if known): _____ Date of site visit: _____

Rated by _____ Trained by Ecology? Yes ___ No ___ Date of training _____

SEC: ___ TOWNSHIP: ___ RANGE: ___ Is S/T/R in Appendix D? Yes ___ No ___

Map of wetland unit: Figure _____ Estimated size _____

SUMMARY OF RATING

Category based on FUNCTIONS provided by wetland

I ___ II ___ III ___ IV ___

Category I = Score ≥ 70
Category II = Score 51-69
Category III = Score 30-50
Category IV = Score < 30

Score for "Water Quality" Functions

Score for Hydrologic Functions

Score for Habitat Functions

TOTAL score for functions

| |
|--|
| |
| |
| |
| |

Category based on SPECIAL CHARACTERISTICS of wetland

I ___ II ___ III ___ Does not Apply ___

Final Category (choose the "highest" category from above)

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|--|
| |
|--|

Summary of basic information about the wetland unit

| Wetland Type | | Wetland Class | |
|--------------------------|--|------------------------------------------------|--|
| Vernal Pool | | Depressional | |
| Alkali | | Riverine | |
| Natural Heritage Wetland | | Lake-fringe | |
| Bog | | Slope | |
| Forest | | | |
| None of the above | | Check if unit has multiple HGM classes present | |

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Does the wetland being rated meet any of the criteria below?

If you answer YES to any of the questions below you will need to protect the wetland according to the regulations regarding the special characteristics found in the wetland.

| Check List for Wetlands That Need Special Protection, and That Are Not Included in the Rating | YES | NO |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|
| SP1. <i>Has the wetland unit been documented as a habitat for any Federally listed Threatened or Endangered animal or plant species (T/E species)?</i> For the purposes of this rating system, "documented" means the wetland is on the appropriate state or federal database. | | |
| SP2. <i>Has the wetland unit been documented as habitat for any State listed Threatened or Endangered animal species?</i> For the purposes of this rating system, "documented" means the wetland is on the appropriate state database. Note: Wetlands with State listed plant species are categorized as Category I Natural Heritage Wetlands (see p. 19 of data form). | | |
| SP3. <i>Does the wetland unit contain individuals of Priority species listed by the WDFW for the state?</i> | | |
| SP4. <i>Does the wetland unit have a local significance in addition to its functions?</i> For example, the wetland has been identified in the Shoreline Master Program, the Critical Areas Ordinance, or in a local management plan as having special significance. | | |

To complete the next part of the data sheet you will need to determine the Hydrogeomorphic Class of the wetland being rated.

The hydrogeomorphic classification groups wetlands into those that function in similar ways. Classifying the wetland first simplifies the questions needed to answer how it functions. The Hydrogeomorphic Class of a wetland can be determined using the key below. See p. 20 for more detailed instructions on classifying wetlands.

Classification of Vegetated Wetlands for Eastern Washington

If the hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1-7 apply, and go to Question 8.

1. Does the entire wetland unit **meet both** of the following criteria?

____ The vegetated part of the wetland is on the shores of a body of open water (without any vegetation on the surface) at least 20 acres (8 ha) in size;

____ At least 30% of the open water area is deeper than 3 m (10 ft)?

NO – go to Step 2

YES – The wetland class is **Lake-fringe (lacustrine fringe)**

2. Does the entire wetland unit **meet all** of the following criteria?

____ The wetland is on a slope (*slope can be very gradual*),

____ The water flows through the wetland in one direction (unidirectional) and usually comes from seeps. It may flow subsurface, as sheetflow, or in a swale without distinct banks.

____ The water leaves the wetland **without being impounded**?

NOTE: *Surface water does not pond in these type of wetlands except occasionally in very small and shallow depressions or behind hummocks (depressions are usually <3ft diameter and less than a foot deep).*

NO - go to Step 3

YES – The wetland class is **Slope**

3. Is the entire wetland unit in a valley or stream channel where it gets inundated by overbank flooding from that stream or river? In general, the flooding should occur at least once every ten years to answer “yes.” *The wetland can contain depressions that are filled with water when the river is not flooding.*

NO - go to Step 4

YES – The wetland class is **Riverine**

4. Is the entire wetland unit in a topographic depression, outside areas that are inundated by overbank flooding, in which water ponds, or is saturated to the surface, at some time of the year. *This means that any outlet, if present, is higher than the interior of the wetland.*

NO – go to Step 5

YES – The wetland class is **Depressional**

5. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a depressional wetland has a zone of flooding along its sides. **GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT** (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within your wetland. NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of the total area.

Wetland name or number _____

| HGM Classes Within One Delineated Wetland Boundary | Class to Use for Rating |
|---------------------------------------------------------------------|-------------------------|
| Slope + Riverine | Riverine |
| Slope + Depressional | Depressional |
| Slope + Lake-fringe | Lake-fringe |
| Depressional + Riverine (riverine is within boundary of depression) | Depressional |
| Depressional + Lake-fringe | Depressional |

If you are unable still to determine which of the above criteria apply to your wetland, or you have more than 2 HGM classes within a wetland boundary, classify the wetland as **Depressional** for the rating.

| D Depressional Wetlands WATER QUALITY FUNCTIONS - Indicators that the wetland functions to improve water quality | | Points (only 1 score per box) |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| D | D 1.0 Does the wetland unit have the <u>potential</u> to improve water quality? | (see p. 38) |
| D | D 1.1 Characteristics of surface water flows out of the wetland unit: Wetland has no surface water outlet - points = 5 Wetland has an intermittently flowing outlet points = 3 Wetland has a highly constricted permanently flowing outlet points = 3 Wetland has a permanently flowing surface outlet points = 1 | |
| D | D 1.2 The soil 2 inches below the surface (or duff layer) is clay or organic (<i>use NRCS definitions of soil types</i>) YES points = 3 NO points = 0 | |
| D | D 1.3 Characteristics of persistent vegetation (emergent, shrub, and/or forest Cowardin class) Wetland has persistent, ungrazed, vegetation for > 2/3 of area points = 5 Wetland has persistent, ungrazed, vegetation from 1/3 to 2/3 of area points = 3 Wetland has persistent, ungrazed vegetation from 1/10 to < 1/3 of area points = 1 Wetland has persistent, ungrazed vegetation < 1/10 of area points = 0 Map of Cowardin vegetation classes | Figure ____ |
| D | D 1.4 Characteristics of seasonal ponding or inundation. <i>This is the area of ponding that fluctuates every year. Do not count the area that is permanently ponded.</i> Area seasonally ponded is > 1/2 total area of wetland points = 3 Area seasonally ponded is 1/4 - 1/2 total area of wetland points = 1 Area seasonally ponded is < 1/4 total area of wetland points = 0 NOTE: See text for indicators of seasonal and permanent inundation/flooding. Map of Hydroperiods | Figure ____ |
| D | Total for D 1 <i>Add the points in the boxes above</i> | |
| D | D 2. Does the wetland unit have the <u>opportunity</u> to improve water quality? Answer YES if you know or believe there are pollutants in groundwater or surface water coming into the wetland that would otherwise reduce water quality in streams, lakes or groundwater downgradient from the wetland. <i>Note which of the following conditions provide the sources of pollutants. A unit may have pollutants coming from several sources, but any single source would qualify as opportunity.</i> — Grazing in the wetland or within 150 ft — Untreated stormwater discharges to wetland — Tilled fields or orchards within 150 ft of wetland — A stream or culvert discharges into wetland that drains developed areas, residential areas, farmed fields, roads, or clear-cut logging — Residential, urban areas, golf courses are within 150 ft of wetland — Wetland is fed by groundwater high in phosphorus or nitrogen — Other _____ YES multiplier is 2 NO multiplier is 1 | multiplier _____ |
| D | TOTAL - Water Quality Functions Multiply the score from D1 by the multiplier in D2 <i>Record score on p. 1 of field form</i> | |

Wetland name or number _____

[illegible]

Comments

[illegible]

Wetland name or number

| R Riverine Wetlands HYDROLOGIC FUNCTIONS - Indicators that wetland functions to reduce flooding and stream degradation | | Points (only 1 score per box) |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| R | R 3.0 Does the wetland have the <u>potential</u> to reduce flooding and erosion? | (see p. 47) |
| R | <p>R 3.1 Amount overbank storage the wetland provides: <i>Estimate the average width of the wetland perpendicular to the direction of the flow of water and the width of the stream or river channel (distance between banks).</i> <i>Calculate the ratio: width of wetland/ width of stream.</i></p> <p>If the ratio is 2 or more points = 10 If the ratio is between 1 and < 2 points = 8 If the ratio is ½ to < 1 points = 4 If the ratio is ¼ to < ½ points = 2 If the ratio is < ¼ points = 1</p> <p>Aerial photo or map showing average widths</p> | Figure ____ |
| R | <p>R 3.2 Characteristics of vegetation that slow down water velocities during floods: <i>Treat large woody debris as “forest or shrub” (area of polygons with >90% cover at person height. This is not Cowardin vegetation classes):</i></p> <p>Forest or shrub for more than 2/3 the area of the wetland. points = 6 Forest or shrub for >1/3 area OR herbaceous plants > 2/3 area points = 4 Forest or shrub for > 1/10 area OR herbaceous plants > 1/3 area points = 2 Vegetation does not meet above criteria points = 0</p> <p>Aerial photo or map showing polygons of different vegetation types</p> | Figure ____ |
| R | <p>Total for R3 Add the points in the boxes above</p> | |
| R | <p>R 4.0 Does the wetland have the <u>opportunity</u> to reduce flooding and erosion?</p> <p>Answer NO if the major source of water is irrigation return flow or water levels are controlled by a reservoir.</p> <p>Answer YES if the wetland is in a location in the watershed where the flood storage, or reduction in water velocity, it provides helps protect downstream property and aquatic resources from flooding or excessive and/or erosive flows. <i>Note which of the following conditions apply.</i></p> <p>— There are human structures and activities downstream (roads, buildings, bridges, farms) that can be damaged by flooding.</p> <p>— There are natural resources downstream (e.g. salmon redds) than can be damaged by flooding</p> <p>— Other _____</p> <p>YES multiplier is 2 NO multiplier is 1</p> | <p>(see p. 50)</p> <p>multiplier</p> |
| R | <p>TOTAL - Hydrologic Functions</p> <p>Multiply the score from R3 by the multiplier in R4</p> <p>Record score on p. 1 of field form</p> | |

Comments

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[illegible]

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| L Lake-fringe Wetlands | | Points |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| HYDROLOGIC FUNCTIONS - Indicators that wetland functions to reduce shoreline erosion | | (only 1 score per box) |
| L | L 3.0 Does the wetland have the <u>potential</u> to reduce shoreline erosion? | (see p.54) |
| L | <p>L 3.1 Average width and characteristics of vegetation along the lakeshore (do not include aquatic bed): (<i>choose the highest scoring description that matches conditions in the wetland</i>)</p> <p>> ¾ of the vegetation is shrubs or trees at least 33 ft (10m) wide points = 6</p> <p>> ¾ of the vegetation is shrubs or trees at least 6 ft. (2 m) wide points = 4</p> <p>> ¼ of the vegetation is shrubs or trees at least 33 ft (10m) wide points = 4</p> <p>Vegetation is at least 6 ft (2m) wide points = 2</p> <p>Vegetation is less than 6 ft (2m) wide points = 0</p> <p>Aerial photo or map with Cowardin vegetation classes</p> | Figure ____ |
| L | <p>L 4.0 Does the wetland have the <u>opportunity</u> to reduce erosion?</p> <p>Are there features along the shore that will be impacted if the shoreline erodes? <i>Note which of the following conditions apply.</i></p> <p>— There are human structures and activities along the shore behind the wetland (buildings, fields) that can be damaged by erosion.</p> <p>— There are undisturbed natural resources along the shore (e.g. mature forests, other classes of wetland) behind the wetland than can be damaged by shoreline erosion</p> <p>— Other _____</p> <p>YES multiplier is 2 NO multiplier is 1</p> | <p>(see p. 55)</p> <p>Multiplier</p> <p>_____</p> |
| L | <p>TOTAL - Hydrologic Functions</p> <p>Multiply the score from L3 by the multiplier in L4</p> <p><i>Record score on p. 1 of field form</i></p> | |

Comments

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[illegible]

Wetland name or number _____

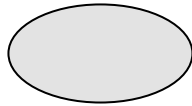
| S Slope Wetlands HYDROLOGIC FUNCTIONS - Indicators that wetland functions to reduce flooding and stream degradation | | Points (only 1 score per box) |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| S | S 3.0 Does the wetland unit have the <u>potential</u> to reduce flooding and stream erosion? | (see p.59) |
| S | <p>S 3.1 Characteristics of vegetation that reduce the velocity of surface flows during storms. Choose the points appropriate for the description that best fit conditions in the wetland. See question S 1.3 for definition of dense and uncut. Rigid means that the stems of plants should be thick enough (usually > 1/8in), or dense enough, to remain erect during surface flows.</p> <p>Dense, uncut, rigid vegetation covers > 90% of the area of the unit points = 6 Dense, uncut, rigid vegetation > 1/2 – 90% area of unit points = 3 Dense, uncut, rigid vegetation > 1/4 – 1/2 of unit points = 1 More than 1/4 of area is grazed, mowed, tilled or vegetation is not rigid points = 0</p> | |
| S | <p>S 3.2 Characteristics of slope wetland that holds back small amounts of flood flows: The slope wetland has small surface depressions that can retain water over at least 10% of its area.</p> <p>YES points = 2 NO points = 0</p> | |
| S | Total for S3 Add the points in the boxes above | |
| S | <p>S 4. 0 Does the wetland unit have the <u>opportunity</u> to reduce flooding and erosion? (see p.61) Answer NO if the major source of water is irrigation return flow (e.g. a seep that is on the downstream side of a dam or at the base of an irrigated field). Answer YES if the wetland is in a landscape position where the reduction in water velocity it provides helps protect downstream property and aquatic resources from flooding or excessive and/or erosive flows. Note which of the following conditions apply.</p> <p>— Wetland has surface runoff that can cause flooding problems downgradient — Other _____</p> <p>YES multiplier is 2 NO multiplier is 1</p> | multiplier _____ |
| S | <p>TOTAL - Hydrologic Functions Multiply the score from S3 by the multiplier in S4 Record score on p. 1 of field form</p> | |

Comments

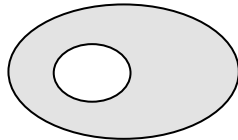
| These questions apply to wetlands of all HGM classes. | | Points (only 1 score per box) | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------|------------|---------|------------|---------|------------|--------|------------|---------------------|
| HABITAT FUNCTIONS - Indicators that wetland functions to provide important habitat | | | | | | | | | | |
| H 1. Does the wetland unit have the <u>potential</u> to provide habitat for many species? | | | | | | | | | | |
| <p>H 1.1 Categories of vegetation structure (see p.62) <i>Check the vegetation classes (as defined by Cowardin) and heights of emergents present. Size threshold for each class or height category is 1/4 acre or more than 10% of the area if unit is < 2.5 acres.</i></p> <p> <input type="checkbox"/> Aquatic bed <input type="checkbox"/> Emergent plants 0-12 in. (0 – 30 cm) high are the highest layer and have > 30% cover <input type="checkbox"/> Emergent plants >12 – 40 in.(>30 – 100cm) high are the highest layer with >30% cover <input type="checkbox"/> Emergent plants > 40 in.(> 100cm) high are the highest layer with >30% cover <input type="checkbox"/> Scrub/shrub (areas where shrubs have >30% cover) <input type="checkbox"/> Forested (areas where trees have >30% cover) </p> <p><i>Add the number of vegetation types that qualify. If you have:</i></p> <table style="width: 100%;"> <tr> <td style="text-align: right;">4-6 types</td> <td style="text-align: right;">points = 3</td> </tr> <tr> <td style="text-align: right;">3 types</td> <td style="text-align: right;">points = 2</td> </tr> <tr> <td style="text-align: right;">2 types</td> <td style="text-align: right;">points = 1</td> </tr> <tr> <td style="text-align: right;">1 type</td> <td style="text-align: right;">points = 0</td> </tr> </table> <p>Map of Cowardin vegetation classes and areas with different heights of emergents</p> | | 4-6 types | points = 3 | 3 types | points = 2 | 2 types | points = 1 | 1 type | points = 0 | Figure _____ |
| 4-6 types | points = 3 | | | | | | | | | |
| 3 types | points = 2 | | | | | | | | | |
| 2 types | points = 1 | | | | | | | | | |
| 1 type | points = 0 | | | | | | | | | |
| <p>H 1.2. Is one of the vegetation types “aquatic bed?” (see p .64) YES = 1 point NO = 0 points </p> | | | | | | | | | | |
| <p>H 1.3. Surface Water (see p.65) H 1.3.1 Does the unit have areas of “open” water (without herbaceous or shrub plants) over at least 1/4 acre or 10% of its area during the spring (March – early June) OR in early fall (August – end of September)? <i>Note: answer YES for Lake-fringe wetlands</i> YES = 3 points & go to H 1.4 NO = go to H 1.3.2 H 1.3.2 Does the unit have an intermittent or permanent stream within its boundaries, or along one side, over at least 1/4 acre or 10% of its area, AND that has an unvegetated bottom (<i>answer yes only if H 1.3.1 is NO</i>)? YES = 3 points NO = 0 points Map showing areas of open water </p> | | Figure _____ | | | | | | | | |
| <p>H 1.4. Richness of Plant Species (see p. 66) Count the number of plant species in the wetland that cover at least 10 ft². (<i>different patches of the same species can be combined to meet the size threshold</i>) <i>You do not have to name the species.</i> <i>Do not include Eurasean Milfoil, reed canarygrass, purple loosestrife, Russian Olive, Phragmites ,Canadian Thistle, Yellow-flag Iris, and Salt Cedar (Tamarisk)</i> If you counted: > 9 species points = 2 4-9 species points = 1 # of species _____ < 4 species points = 0 points <i>List species below if you wish</i> </p> | | | | | | | | | | |

H 1.5. Interspersion of habitats (*see p. 67*)

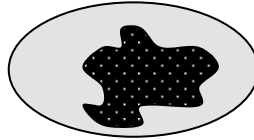
Decided from the diagrams below whether interspersion between categories of vegetation (described in H 1.1), or categories and un-vegetated areas (can include open water or mudflats) is high, medium, low, or none.



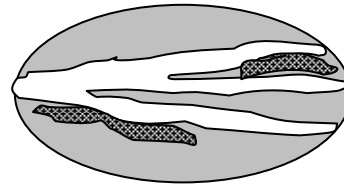
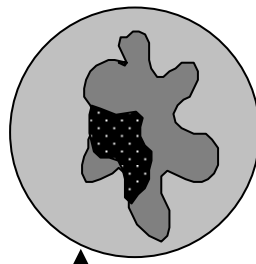
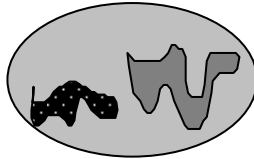
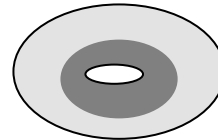
None = 0 points



Low = 1 point



Moderate = 2 points



[Riparian braided channel]

High = 3 points

NOTE: If you have four or more vegetation categories or three vegetation categories and open water the rating is always "high". Use maps from H1.1 and H1.3

H 1.6. Special Habitat Features: (*see p. 68*)

Check the habitat features that are present in the wetland unit. The number of checks is the number of points you put into the next column.

- ___ Loose rocks larger than 4" **or** large, downed, woody debris (>4in. diameter) within the area of surface ponding or in stream.
- ___ Cattails or bulrushes are present within the unit.
- ___ Standing snags (diameter at the bottom > 4 inches) in the wetland unit or within 30 m (100ft) of the edge.
- ___ Emergent or shrub vegetation in areas that are permanently inundated/ponded. *The presence of "yellow flag" Iris is a good indicator of vegetation in areas permanently ponded.*
- ___ Stable steep banks of fine material that might be used by beaver or muskrat for denning (>45 degree slope) OR signs of recent beaver activity
- ___ Invasive species cover less than 20% in each stratum of vegetation (*canopy, sub-canopy, shrubs, herbaceous, moss/ground cover*)

Maximum score possible = 6

TOTAL Potential to provide habitat
Add the scores in the column above

Comments

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| H 2.0 Does the wetland have the opportunity to provide habitat for many species? | |
| <p>H 2.1 Buffers (<i>see p. 71</i>) <i>Choose the description that best represents condition of buffer of wetland unit. The highest scoring criterion that applies to the wetland is to be used in the rating. See text for definition of “undisturbed.” Relatively undisturbed also means no grazing, no landscaping, no daily human use, and no structures or paving within undisturbed part of buffer.</i></p> <ul style="list-style-type: none"> — 330ft (100 m) of relatively undisturbed vegetated areas, rocky areas, or open water >95% of circumference Points = 5 — 330 ft (100 m) of relatively undisturbed vegetated areas, rocky areas, or open water > 50% circumference. Points = 4 — 170ft (50 m) of relatively undisturbed vegetated areas, rocky areas, or open water >95% circumference. Points = 4 — 330ft (100 m) of relatively undisturbed vegetated areas, rocky areas, or open water > 25% circumference, . Points = 3 — 170ft (50 m) of relatively undisturbed vegetated areas, rocky areas, or open water for > 50% circumference. Points = 3 <p style="text-align: center;">If buffer does not meet any of the criteria above</p> <ul style="list-style-type: none"> — No paved areas (except paved trails) or buildings within 80ft (25 m) of wetland > 95% circumference. Light to moderate grazing, or lawns are OK. Points = 2 — No paved areas or buildings within 170ft (50m) of wetland for >50% circumference. Light to moderate grazing, or lawns are OK. Points = 2 — Heavy grazing in buffer. Points = 1 — Vegetated buffers are <6.6ft wide (2m) for more than 95% of the circumference (e.g . tilled fields, paving, basalt bedrock extend to edge of wetland). Points = 0 — Buffer does not meet any of the criteria above. Points = 1 <p style="text-align: center;">Aerial photo showing buffers</p> | Figure ____ |
| <p>H 2.2 Wet Corridors (<i>see p. 72</i>)</p> <p>H 2.2.1 Is the wetland unit part of a relatively undisturbed and unbroken, > 30 ft wide, vegetated corridor at least ¼ mile long with surface water or flowing water throughout most of the year (> 9 months/yr)? (<i>dams, heavily used gravel roads, paved roads, fields tilled to edge of stream, or pasture to edge of stream are considered breaks in the corridor</i>).</p> <p style="padding-left: 40px;">YES = 4 points (go to H 2.3) NO = go to H 2.2.2</p> <p>H 2.2.2 Is the unit part of a relatively undisturbed and unbroken, > 30 ft wide, vegetated corridor, at least ¼ mile long with water flowing seasonally, OR a lake-fringe wetland without a “wet” corridor, OR a riverine wetland without a surface channel connecting to the stream?</p> <p style="padding-left: 40px;">YES = 2 points (go to H 2.3) NO go to H 2.2.3</p> <p>H 2.2.3 Is the wetland within a 1/2 mile of any permanent stream, seasonal stream, or lake (<i>do not include man-made ditches</i>)?</p> <p style="padding-left: 40px;">YES = 1 point NO = 0 points</p> | |

H 2.3 Near or adjacent to other priority habitats listed by WDFW (see p. 74)

Which of the following priority habitats are within 330ft (100m) of the wetland unit?

*NOTE: the connections **do not** have to be relatively undisturbed. These are DFW definitions.*

Check with your local DFW biologist if there are any questions.

____ **Riparian:** The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.

____ **Aspen Stands:** Pure or mixed stands of aspen greater than 2 acres.

____ **Cliffs:** Greater than 25 ft high and occurring below 5000 ft.

____ **Old-growth forests:** (east of Cascade crest): In general, stands will be >150 years of age, with 10 trees/acre that are > 21 in dbh, and 1 - 3 snags/acre > 12-14 in diameter.

____ **Mature forests:** Stands with average diameters exceeding 21 in dbh; crown cover may be less than 100%; decay, 80 - 160 years old east of the Cascade crest.

____ **Prairies and Steppe:** Relatively undisturbed areas (as indicated by dominance of native plants) where grasses and/or forbs form the natural climax plant community.

____ **Shrub-steppe:** Tracts of land consisting of plant communities with one or more layers of perennial grasses and a conspicuous but discontinuous layer of shrubs.

____ **Talus:** Homogenous areas of rock rubble ranging in average size 0.5 - 6.5 ft, composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.

____ **Caves:** A naturally occurring cavity, recess, void, or system of interconnected passages

____ **Oregon white Oak:** Woodlands Stands of pure oak or oak/conifer associations where canopy coverage of the oak component of the stand is 25%.

____ **Urban Natural Open Space:** A priority species resides within or is adjacent to the open space and uses it for breeding and/or regular feeding; and/or the open space functions as a corridor connecting other *priority habitats*, especially those that would otherwise be isolated; and/or the open space is an isolated remnant of natural habitat larger than 4 ha (10 acres) and is surrounded by urban development.

____ **Aspen Stands:** Pure or mixed stands of aspen greater than 0.8 ha (2 acres).

If wetland has **2 or more** Priority Habitats = **4 points**

If wetland has **1** Priority Habitat = **2 points**

No Priority habitats = **0 points**

Note: All vegetated wetlands are by definition a priority habitat but are not included in this list.

Nearby wetlands are addressed in question H 2.4)

Comments

Wetland name or number _____

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| <p>H 2.4 <u>Landscape</u> (<i>choose the one description of the landscape around the wetland that best fits</i>) (<i>see p. 76</i>)</p> <ul style="list-style-type: none"> — The wetland unit is in an area where annual rainfall is less than 12 inches, and its water regime is not influenced by irrigation practices, dams, or water control structures. (<i>Generally, this means outside boundaries of reclamation areas, irrigation district, or reservoirs</i>) points = 5 — There are at least 3 other wetlands within ½ mile, and the connections between them are relatively undisturbed (light grazing in the connection or an open water connection along a lake shore without heavy boat traffic are OK, but connections should NOT be bisected by paved roads, fill, fields, heavy boat traffic or other development) points = 5 — There are at least 3 other wetlands within ½ mile, BUT the connections between them are disturbed? points = 2 — There is at least 1 wetland within ½ mile. points = 1 — Does not meet any of the four criteria above points = 0 | |
| <p>H 2. TOTAL Score - opportunity for providing habitat <i>Add the scores in the column above</i></p> | |
| <p>H 3.0 Does the wetland unit have indicators that its ability to provide habitat is reduced?</p> | |
| <p>H 3.1 <u>Indicator of reduced habitat functions</u> (<i>see p. 75</i>) Do the areas of open water in the wetland unit have a resident population of carp (see text for indicators of the presence of carp)? (<i>NOTE: This question does not apply to reservoirs with water levels controlled by dams, such as the reservoirs on the Columbia and Snake Rivers</i>)</p> <p style="text-align: center;">YES = - 5 points NO = 0 points</p> | <p><i>Points will be subtracted</i></p> |
| <p>Total Score for Habitat Functions – <i>add the points for H 1, H 2, and H 3 and record the result on p. 1</i></p> | |

Comments

CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

Please determine if the wetland unit meets the attributes described below and circle the appropriate Category. NOTE: A wetland may meet the criteria for more than one set of special characteristics. Record all those that apply. NOTE: All units should also be characterized based on their functions.

| Wetland Type | Category |
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| <p><i>Check off any criteria that apply to the wetland. Circle the Category when the appropriate criteria are met.</i></p> <p>SC 1.0 Vernal pools (<i>see p. 79</i>)</p> <p>Is the wetland unit less than 4000 ft², and does it meet at least two of the following criteria?</p> <ul style="list-style-type: none"> — Its only source of water is rainfall or snowmelt from a small contributing basin and has no groundwater input — Wetland plants are typically present only in the spring; the summer vegetation is typically upland annuals. <i>NOTE: If you find perennial, “obligate”, wetland plants the wetland is probably NOT a vernal pool</i> — The soil in the wetland are shallow (<1ft deep (30 cm)) and is underlain by an impermeable layer such as basalt or clay. — Surface water is present for less than 120 days during the “wet” season. <p>YES = Go to SC 1.1 NO - <i>not a vernal pool</i></p> <p>SC 1.1 Is the vernal pool relatively undisturbed in February and March?</p> <p>YES = Go to SC 1.2 NO – <i>not a vernal pool with special characteristics</i></p> | |
| <p>SC 1.2 Is the vernal pool in an area where there are at least 3 separate aquatic resources within 0.5 miles (other wetlands, rivers, lakes etc.)?</p> <p>YES = Category II NO = Category III</p> | <p>Cat. II Cat. III</p> |
| <p>SC 2.0 Alkali wetlands (<i>see p. 81</i>)</p> <p>Does the wetland unit meets one of the following two criteria?</p> <ul style="list-style-type: none"> — The wetland has a conductivity > 3.0 mS/cm. — The wetland has a conductivity between 2.0 - 3.0 mS, and more than 50% of the plant cover in the wetland can be classified as “alkali” species (see Table 2 for list of plants found in alkali systems). — If the wetland is dry at the time of your field visit, the central part of the area is covered with a layer of salt. <p>OR does the wetland unit meets two of the following three sub-criteria?</p> <ul style="list-style-type: none"> — Salt encrustations around more than 80% of the edge of the wetland — More than ¾ of the plant cover consists of species listed on Table 2 — A pH above 9.0. All alkali wetlands have a high pH, but please note that some freshwater wetlands may also have a high pH. Thus, pH alone is not a good indicator of alkali wetlands. <p>YES = Category I NO – <i>not an alkali wetland</i></p> | <p>Cat. I</p> |

[illegible]

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| <p>SC 5.0 Forested Wetlands (see p. 85)</p> <p>Does the wetland unit have an area of forest (<i>you should have identified a forested class, if present, in question H 1.1</i>) rooted within its boundary that meet at least one of the following three criteria?</p> <ul style="list-style-type: none"> — The wetland is within the “100 year” floodplain of a river or stream — aspen (<i>Populus tremuloides</i>) are a dominant or co-dominant of the “woody” vegetation. (<i>Dominants means it represents at least 50% of the cover of woody species, co-dominant means it represents at least 20% of the total cover of woody species</i>) — There is at least ¼ acre of trees (even in wetlands smaller than 2.5 acres) that are “mature” or “old-growth” according to the definitions for these priority habitats developed by WDFW (<i>see p. 83</i>) <p>YES = go to SC 5.1 NO –not a forested wetland with special characteristics</p> | |
| <p>SC 5.1 Does the wetland unit have a forest canopy where more than 50% of the tree species (by cover) are slow growing native trees</p> <p>Slow growing trees are: western red cedar (<i>Thuja plicata</i>), Alaska yellow cedar (<i>Chamaecyparis nootkatensis</i>), pine spp. mostly “white” pine (<i>Pinus monticola</i>), western hemlock (<i>Tsuga heterophylla</i>), Englemann spruce (<i>Picea engelmannii</i>).</p> <p>YES = Category I NO = go to SC 5.2</p> <p>SC 5.2 Does the unit have areas where aspen (<i>Populus tremuloides</i>) are a dominant or co-dominant species?</p> <p>YES = Category I NO = go to SC 5.3</p> <p>SC 5.3 Does the wetland unit have areas with a forest canopy where more than 50% of the tree species (by cover) are fast growing species.</p> <p>Fast growing species are:</p> <p>Alders – red (<i>Alnus rubra</i>), thin-leaf (<i>A. tenuifolia</i>)</p> <p>Cottonwoods – narrow-leaf (<i>Populus angustifolia</i>), black (<i>P. balsamifera</i>)</p> <p>Willows- peach-leaf (<i>Salix amygdaloides</i>), Sitka (<i>S. sitchensis</i>), Pacific (<i>S. lasiandra</i>), Aspen - (<i>Populus tremuloides</i>), Water Birch (<i>Betula occidentalis</i>)</p> <p>YES = Category II NO = go to SC 5.5</p> <p>SC 5.5 Is the forested component of the wetland within the “100 year floodplain” of a river or stream?</p> <p>YES = Category II</p> | <p>Cat. I</p> <p>Cat. I</p> <p>Cat. II</p> <p>Cat. II</p> |
| <p>Category of wetland based on Special Characteristics</p> <p><i>Choose the “highest” rating if wetland falls into several categories.</i></p> <p>If you answered NO for all types enter “Not Applicable” on p.1</p> | <p></p> |